The California Water Quality Monitoring Collaboration Network Announces

Swimmable California Webinar Series

Join the California Water Quality Monitoring Collaboration Network along Ryan Searcy from Heal the Bay for the presentation "***Beach Water Quality Modeling and NowCasting***". Please join us on Wednesday April 25, 2018 from 11:30 AM -12:30 PM (PST).

Sponsored by the California Water Quality Monitoring Collaboration Network the goal of this webinar series is to focus on elements that support California's water monitoring and management programs that provide for a ***Swimmable California***. Safe to Swim water quality programs are an important part of ensuring public health while people recreate at the State's many beaches and swimming holes or using these same waters for cultural or subsistence uses. As California's population continues to grow, more people are recreating in surface waters, especially freshwater. Water quality monitoring and management continue to be challenging for many agencies and the webinar series should be of assistance to many groups as they face these challenges. Organizers of this webinar series encourage participants to engage with the California Water Quality Monitoring Council's [California Safe-to-Swim Workgroups](). Through networking, sharing and building capacity we can work together supporting a swimmable California.

Webinar Topic and Agenda Pages can be found [here]().

All webinars will be recorded and placed within the "Swimmable California Webinar Series" Playlist [here]().

Topic: Beach Water Quality Modeling and NowCasting

Heal the Bay, Stanford University, and UCLA have partnered with the State Water Resources Control Board (SWRCB) to implement the California Beach Water Quality NowCast program. The goal of the NowCast system is to improve public health notification of poor water quality at some of California's most popular beaches by using predictive models in conjunction with ongoing beach monitoring programs. The lack of daily sampling at California beaches can result in a void of information about water quality, leading to potential human exposure to poor water quality. The NowCast program uses statistical models to make daily water quality predictions and determine if the State's recreational water quality standards are likely to be met or exceeded. The models are calibrated and validated using past fecal indicator bacteria (FIB) concentrations and environmental (tides, waves, weather, etc.) data to predict beach postings/non-postings as accurately as possible. As such, NowCast predictions for public notification can be more accurate than the current method of using the most recent sample results to make posting decisions. Moreover, NowCast can provide updated water quality information every day, even at beaches monitored weekly. NowCast predictions are provided to beach managers every morning before 10AM and posted to Heal the Bay's media network, allowing beachgoers to access updated water quality information before they get to the beach.

This webinar identifies the utility of predictive modeling in water quality monitoring and public notification programs, describes how models are created and implemented, and details Heal the Bay's current and future objectives with the NowCast system.

Presenter: Ryan Searcy

Ryan is responsible for developing and running Heal the Bay's "NowCast" program, an innovative platform that will forecast water quality at beaches across California daily. Hailing from Northern California, Ryan moved down to sunny San Diego to earn both a B.S. in Environmental Engineering and a M.S. in Mechanical Engineering at UCSD. After the work day is done, Ryan can be found surfing waves or sipping a homebrew. Contact info: rsearcy@healthebay.org (310) 451-1500 x111

CWQMCN Communication:
- CWQMCN webinar listserv: www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml After opening the above web-site, enter your email address and name, click on State Water Resources Control Board - Covering statewide issues, next click General Interests, and then place a check mark next to "Water Quality Monitoring Collaboration Network - Webinar Sessions", then click the "subscribe" button.
- We have set up a webpage for the California Water Quality Monitoring Collaboration Network www.mywaterquality.ca.gov/monitoring_council/collaboration_network/index.html
- We also have a LinkedIn Group, California Water Quality Monitoring Professional Network. This group was formed to facilitate water quality monitoring communication and discussions. www.linkedin.com.
- Watch CWQMCN videos and find video playlists organized by topic at www.youtube.com/cwqmcn.

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